WEST Search History

DATE: Thursday, August 07, 2003

Set Name	Query	Hit Count	Set Name
side by side			result set
DB=USPT; PLUR=YES; OP=ADJ			
L16	L15	23	L16
DB=USPT,PGPB; PLUR=YES; OP=ADJ			
L15	L14 and (AIF or Stamp$)	28	L15
L14	L13 and INI	151	L14
L13	L12 or l11	17862	L13
L12	migrat$ near2 (software or file or information)	645	L12
L11	download$ near2 (software or file or information)	17288	L11
L10	L9 and stamp$	5.	L10
L9	L8 and INI	31	L9
L8	((717/174 |717/175 |717/176 |717/177 |717/178)!.CCLS.)	476	L8
DB=EPAB,DWPI; PLUR=YES; OP=ADJ			
L7	L4 and stamp$	10	L7
L6	L4 and extract$	103	L6
L5	L4 and INI	0	L5
L4	download$ near2 (software or file or information)	2712	L4
L3	migrat$ near2 (software or file or information)	82	L3
DB=TDBD; PLUR=YES; OP=ADJ			
L2	download$ near2 (software or file or information)	71	L2
L1	migrat$ near2 (software or file or information)	17	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 20 of 23 returned.

☐ 1. Document ID: US 6594692 B1

L16: Entry 1 of 23   File: USPT   Jul 15, 2003

US-PAT-NO: 6594692
DOCUMENT-IDENTIFIER: US 6594692 B1

TITLE: Methods for transacting electronic commerce

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisman; Richard R.	New York	NY	10003	

US-CL-CURRENT: 709/219; 705/26, 709/203, 709/225

ABSTRACT:

A novel electronic information transport component can be incorporated in a wide range of electronic information products, for example magazine collections, to automate the mass distribution of updates, such as current issues, from a remote server to a wide user base having a diversity of computer stations. Advantages of economy, immediacy and ease of use are provided. Extensions of the invention permit automated electronic catalog shopping with order placement and, optionally, order confirmation. A server-based update distribution service is also provided. In addition, an offline web browser system, with hyperlink redirection capabilities, a novel recorded music product with automated update capabilities and an Internet charging mechanism are provided.

46 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 2. Document ID: US 6571290 B2

L16: Entry 2 of 23   File: USPT   May 27, 2003

US-PAT-NO: 6571290
DOCUMENT-IDENTIFIER: US 6571290 B2

TITLE: Method and apparatus for providing fungible intercourse over a network

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Selgas; Thomas Drennan	Garland	TX		
Massing; Michael Brian	Boulder Creek	CA		
Gmuender; John Everett	Campbell	CA		

US-CL-CURRENT: 709/228; 709/227

ABSTRACT:

The present invention comprises a method and apparatus for simplifying the process of access to a network for a roaming computer user, divides the responsibility of servicing a given user wanting to access the network between multiple parties wanting to access the network between multiple parties and minimizes the possibility of improper dissemination of email header data as well as improper use of network resources (including server systems) by non-clients.

13 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image

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☐ 3. Document ID: US 6539473 B1

L16: Entry 3 of 23   File: USPT   Mar 25, 2003

US-PAT-NO: 6539473
DOCUMENT-IDENTIFIER: US 6539473 B1

TITLE: Remotely controlled boot manager

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hubacher; Kenneth	Austin	TX		
Sposato; Dennis	Austin	TX		
Theiller; Philip C.	Pflugerville	TX		

US-CL-CURRENT: 713/2; 709/203, 709/219, 709/222, 713/1, 717/173, 717/178

ABSTRACT:

An apparatus and method for the administrator of a computer network to make changes to boot manager configuration from a server without any direct involvement at the local workstation.

7 Claims, 10 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments		KWIC	Draw Desc	Image

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☐ 4. Document ID: US 6487601 B1

L16: Entry 4 of 23   File: USPT   Nov 26, 2002

US-PAT-NO: 6487601

DOCUMENT-IDENTIFIER: U⬤487601 B1

TITLE: Dynamic mac allocation and configuration

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hubacher; Kenneth	Cedar Park	TX		
Sposato; Dennis	Austin	TX		
Theiller; Philip C.	Pflugerville	TX		

US-CL-CURRENT: 709/229; 709/219, 709/222, 713/2

ABSTRACT:

A method and apparatus for Dynamic MAC Allocation and Configuration is based on the ability to remotely boot a client machine from a server machine and adds the capability to assign a Locally Administered Address (LAA) to override the Universally Administered Address (UAA). A set of programs at the workstation allows a remote boot and interaction the server. The client machine will send out a DMAC discovery frame. The discovery frame will be intercepted by a DMAC program installed on the server which will be running and listening for the request. Once the DMAC program intercepts the request it analyzes the request and takes one of two actions. If necessary, the server will run an "initialization" script. For workstations that have already been initialized, the server will send an LAA to the client workstation from a table or pool. The client workstation will then request an operating system with its new LAA. The boot options will be a table or pool corresponding to an LAA or range of LAA's. In order to achieve the override of the UAA, the DMAC will assign an LAA to the workstation. Once the LAA is assigned the boot will proceed based on the package that will be shipped to that address.

6 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 5. Document ID: US 6463530 B1

L16: Entry 5 of 23   File: USPT   Oct 8, 2002

US-PAT-NO: 6463530
DOCUMENT-IDENTIFIER: US 6463530 B1
** See image for Certificate of Correction **

TITLE: Method and apparatus for remotely booting a client computer from a network by emulating remote boot chips

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sposato; Dennis	Austin	TX		

US-CL-CURRENT: 713/2; 709/220, 709/221, 710/104, 713/1, 713/100

ABSTRACT:

A method and apparatus for booting a client computer connected to a network without a boot ROM and without an operating system is provided. Instructions from a BIOS ROM are executed to load a boot code loader from a nonvolatile, read/write memory, such

as a diskette or hard ●k. The boot code loader execut●to load a control program
from the diskette, and the control program executes to load a set of programs and/or
device drivers from the diskette without loading an operating system. The set of
programs and/or device drivers communicate with a network server to retrieve a boot
program from the network server, and the boot program executes to complete the boot
process of the client, such as downloading an operating system from the server.

30 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

☐ 6.   Document ID: US 6446092 B1

L16: Entry 6 of 23   File: USPT   Sep 3, 2002

US-PAT-NO: 6446092
DOCUMENT-IDENTIFIER: US 6446092 B1

TITLE: Independent distributed database system

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sutter; Herbert P.	Oakville			CA

US-CL-CURRENT: 707/203

ABSTRACT:

An independent distributed database system comprising a plurality of sites wherein
all users at all sites work off-line with local data. All application transactions
are against the local database only, and every site stores "all and only" the data
it needs. On-line transactions occur only in the background, including a periodical
"synch" between sites that transmits any changes to data of interest to that site.
If the background operations are interrupted or the network is temporarily
unavailable, the user does not see new changes made at other sites until the data
link is available again, but is otherwise unaffected. It is a feature that no site
acts as a "server" for any other site. Some sites may store more data or have more
users than others, but all sites are logically peers.

57 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

☐ 7.   Document ID: US 6434562 B1

L16: Entry 7 of 23   File: USPT   Aug 13, 2002

US-PAT-NO: 6434562
DOCUMENT-IDENTIFIER: US 6434562 B1
** See image for Certificate of Correction **

TITLE: Computer system and method for providing digital video and data over a
communication channel

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pennywitt; Kirk	Lawrenceville	GA		
Eshleman; Matthew A.	Lilburn	GA		
Pellegrini; Mark W.	Atlanta	GA		
Dunn; Bryan W.	Newnan	GA		

US-CL-CURRENT: 707/10; 725/109

ABSTRACT:

A computer system and method for providing digital video and data capitalizes on a bus, or broadcast backplane, created by circuitry contained within the central office. The broadcast backplane enables a plurality of video program data to be available to each end user, and allows a plurality of end users access to a plurality of video programming content without the necessity of delivering the entire program content to each end user. A user requests a particular program and, if authorized, receives at least that program over the communication channel. Simultaneous with the digital video content supplied on the channel is both bi-directional data service (such as for example, Internet data) and POTS (plain old telephone service). In this manner, a communication channel that is presently available to a large percentage of the population may be used to deliver digital video content, bi-directional data and POTS simultaneously. In addition, the digital video and data delivery system employs novel architecture to synchronize the timing of the digital video signal to ensure that the digital video program received by the user is of high quality and complies with the present state of the art MPEG-2 (motion picture experts group-2) video standard.

4 Claims, 48 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 48

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments   KWIC | Draw Desc | Image

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☐ 8. Document ID: US 6373950 B1

L16: Entry 8 of 23   File: USPT   Apr 16, 2002

US-PAT-NO: 6373950
DOCUMENT-IDENTIFIER: US 6373950 B1

TITLE: System, method and article of manufacture for transmitting messages within messages utilizing an extensible, flexible architecture

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rowney; Kevin T. B.	San Francisco	CA		

US-CL-CURRENT: 380/255; 380/43, 380/59, 705/64

ABSTRACT:

Secure transmission of data is provided between a plurality of computer systems over a public communication system, such as the Internet. Secure transmission of data is provided from a customer computer system to a merchant computer system, and for the further secure transmission of payment information regarding a payment instrument from the merchant computer system to a payment gateway computer system. The payment gateway system formats transaction information appropriately and transmits the

transaction to the particular host legacy system. The host legacy system evaluates the payment information and returns a level of authorization of credit to the gateway which packages the information to form a secure transaction which is transmitted to the merchant which is in turn communicated to the customer by the merchant. The merchant can then determine whether to accept the payment instrument tendered or deny credit and require another payment instrument. An architecture that provides support for additional message types that are value-added extensions to the basic SET protocol, is provided by a preferred embodiment of the invention. The merchant can then determine whether to accept the payment instrument tendered or deny credit and require another payment instrument. An architecture that provides support for additional message types that are not SET compliant is provided by a preferred embodiment of the invention. An architecture for transmitting messages from a merchant-controlled computer system, such as a server, to an acquirer-controlled computer system, such as a gateway, is disclosed. The merchant-controlled computer system defines messages as text name-value pairs, and encrypts them using an encryption scheme such as PKCS-7. The encrypted name-value pairs are encoded into a text sequence using a text-encoding scheme such as Multipurpose Internet Mail Extensions encoding. The messages are transmitted to the acquirer-controlled computer as payload data in a transmission block. The messages may be used, for example, to command the acquirer-controlled computer to perform settlement/reconciliation, to notify the acquirer-controlled computer of a logon or logoff operation, or to request the acquirer-controlled computer to transmit its parameter values.

45 Claims, 109 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 57

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 9. Document ID: US 6363363 B1

L16: Entry 9 of 23   File: USPT   Mar 26, 2002

US-PAT-NO: 6363363
DOCUMENT-IDENTIFIER: US 6363363 B1

TITLE: System, method and article of manufacture for managing transactions in a high availability system

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haller; Daniel R.	Menlo Park	CA		
Nguyen; Trong	Sunnyvale	CA		
Rowney; Kevin T. B.	San Francisco	CA		
Berger; David A.	San Mateo	CA		
Kramer; Glenn A.	San Francisco	CA		

US-CL-CURRENT: 705/40; 705/26, 705/27, 705/77, 709/203, 709/230, 709/245, 709/249, 709/250

ABSTRACT:

An architecture is disclosed allowing a server to communicate bidirectionally with a gateway over a first communication link, over which service requests are initiated by the server. In response to a transaction received from a host legacy system at the gateway, the gateway parses one or more transaction response values from the host message, maps the one or more transaction response values to a canonical response code, and stores the canonical response code in a transaction log. According to a broad aspect of a preferred embodiment of the invention, communication networks that employ transactions between applications must

effectively manage tra●ctions that flow over the netw●. In addition, networking
systems must also detect counterfeit transactions, especially, when the networking
systems are utilized for financial transactions. An active, on-line database is
utilized as a transaction log to track original requests, valid retrys and detect
fradulant transactions. The transaction log serves as a memory cache where the
received host response is returned to a valid retry transaction should the original
response fail to reach a server because of a communications problem.

24 Claims, 109 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 57

☐ 10.   Document ID: US 6304915 B1

L16: Entry 10 of 23   File: USPT   Oct 16, 2001

US-PAT-NO: 6304915
DOCUMENT-IDENTIFIER: US 6304915 B1

TITLE: System, method and article of manufacture for a gateway system architecture
with system administration information accessible from a browser

DATE-ISSUED: October 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nguyen; Trong	Sunnyvale	CA		
Subramanian; Mahadevan P.	Foster City	CA		
Haller; Daniel R.	Menlo Park	CA		

US-CL-CURRENT: 709/250; 709/217, 709/230

ABSTRACT:

Secure transmission of data is provided between a plurality of computer systems over
a public communication system, such as the Internet. Secure transmission of data is
provided from a customer computer system to a merchant computer system, and for the
further secure transmission of payment information from the merchant computer system
to a payment gateway computer system. The payment gateway system receives encrypted
payment requests from merchants, as HTTP POST messages via the Internet. The gateway
then unwraps and decrypts the requests, authenticates digital signatures of the
requests based on certificates, supports transaction types and card types as
required by a financial institution, and accepts concurrent VPOS transactions from
each of the merchant servers. Then, the gateway converts transaction data to
host-specific formats and forwards the mapped requests to the host processor using
the existing financial network. The gateway system architecture includes support for
standard Internet access routines which facilitate access to system administration
information from a commercial web browser.

20 Claims, 112 Drawing figures
Exemplary Claim Number: 1,9
Number of Drawing Sheets: 60

☐ 11.   Document ID: US 6253027 B1

L16: Entry 11 of 23   File: USPT   Jun 26, 2001

US-PAT-NO: 6253027
DOCUMENT-IDENTIFIER: US 6253027 B1

TITLE: System, method and article of manufacture for exchanging software and configuration data over a multichannel, extensible, flexible architecture

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weber; Jay C.	Menlo Park	CA		
Rowney; Kevin T. B.	San Francisco	CA		
Kramer; Glenn A.	San Francisco	CA		

US-CL-CURRENT: 380/287; 705/26, 705/50, 713/150, 713/151, 713/164, 713/168, 713/175, 713/180, 713/200, 713/201

ABSTRACT:

Secure transmission of data is provided between a plurality of computer systems over a public communication system, such as the Internet. Secure transmission of data is provided from a customer computer system to a merchant computer system, and for the further secure transmission of payment information regarding a payment instrument from the merchant computer system to a payment gateway computer system. The payment gateway system evaluates the payment information and returns a level of authorization of credit via a secure transmission to the merchant which is communicated to the customer by the merchant. The merchant can then determine whether to accept the payment instrument tendered or deny credit and require another payment instrument. An architecture that provides support for additional message types that are not SET compliant is provided by a preferred embodiment of the invention. A server communicating bidirectionally with a gateway is disclosed. The server communicates to the gateway over a first communication link, over which all service requests are initiated by the server. The gateway uses a second communication link to send service signals to the server. In response to the service signals, the server initiates transactions to the gateway or presents information on an a display device.

21 Claims, 109 Drawing figures
Exemplary Claim Number: 8
Number of Drawing Sheets: 57

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 12. Document ID: US 6208666 B1

US-PAT-NO: 6208666
DOCUMENT-IDENTIFIER: US 6208666 B1
** See image for Certificate of Correction **

TITLE: System and method for maintaining timing synchronization in a digital video network

DATE-ISSUED: March 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lawrence; Peter H.	Smyrna	GA		
Dunn; Bryan W.	Newnan	GA		
Eshleman; Matthew A.	Lilburn	GA		

US-CL-CURRENT: 370/503; 370/498

ABSTRACT:

A novel system and method for maintaining timing synchronization in a digital video network, in conjunction with a digital video and data delivery system, makes possible the delivery of digital video content, bi-directional data services, such as Internet data, and plain old telephone service (POTS) to an end user over a communications channel. The channel is typically the copper wire pair that extends between a telephone company central office and a residential premises, but may be any communication medium that supports the communication of compressed digital video, bi-directional data, such as Internet data, and POTS, and indeed, may be a wireless connection. The digital video and data delivery system capitalizes on a bus, or broadcast backplane, created by circuitry contained within the central office. The broadcast backplane enables a plurality of video program data to be available to each end user, and allows a plurality of end users access to a plurality of video programming content without the necessity of delivering the entire program content to each end user.

15 Claims, 48 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 48

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 13. Document ID: US 6178409 B1

L16: Entry 13 of 23   File: USPT   Jan 23, 2001

US-PAT-NO: 6178409
DOCUMENT-IDENTIFIER: US 6178409 B1

TITLE: System, method and article of manufacture for multiple-entry point virtual point of sale architecture

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weber; Jay C.	Menlo Park	CA		
Berger; David A.	San Mateo	CA		
Arora; Atul	San Jose	CA		

US-CL-CURRENT: 705/79; 380/255, 380/287, 705/26, 705/39, 705/40, 705/44, 705/76, 705/77, 713/150, 713/153, 713/155, 713/156, 713/168, 713/175

ABSTRACT:

A server communicates bidirectionally with a gateway over a first communication link, over which service requests flow to the server for one or more merchants and/or consumers. Service requests are associated with a particular merchant based on storefront visited by a consumer or credentials presented by a merchant. Service requests result in merchant specific transactions that are transmitted to the gateway for further processing on existing host applications.

24 Claims, 109 Drawing figures
Exemplary Claim Number: 9
Number of Drawing Sheets: 57

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

L16: Entry 14 of 23   File: USPT   Dec 19, 2000

US-PAT-NO: 6163772
DOCUMENT-IDENTIFIER: US 6163772 A

TITLE: Virtual point of sale processing using gateway-initiated messages

DATE-ISSUED: December 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kramer; Glenn A.	San Francisco	CA		
Weber; Jay C.	Menlo Park	CA		

US-CL-CURRENT: 705/79; 705/78, 709/224, 709/249, 713/153

ABSTRACT:

Secure transmission of data is provided between a plurality of computer systems over a public communication system, such as the Internet. For example, secure transmission of data is provided between a merchant server and an acquirer gateway using Secure Electronic Transaction (SET) compliant messages. However, gateway-initiated messages are not SET compliant. Accordingly, secure transmission of data using additional messages that are not SET compliant is provided in accordance with one embodiment of the present invention. In one embodiment, a method for virtual point of sale processing using gateway-initiated messages, includes establishing a first communication link (e.g., operating under the Internet Protocol) between an acquirer gateway and a merchant server, the first communication link being initiated by the acquirer gateway, and transmitting a gateway-initiated message (e.g., a Multipurpose Internet Mail Extensions(MIME) -encapsulated PKCS-7 message that includes a request for management information base data of the merchant server) via the first communication link from the acquirer gateway to the merchant server. The method also includes establishing a second communication link (e.g., operating under the Internet Protocol) between the acquirer gateway and the merchant server, the second communication link being initiated by the merchant server, and transmitting a Secure Electronic Transaction (SET) message via the second communication link from the merchant server to the acquirer gateway.

27 Claims, 108 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 57

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

L16: Entry 15 of 23   File: USPT   Nov 28, 2000

US-PAT-NO: 6154772
DOCUMENT-IDENTIFIER: US 6154772 A
** See image for Certificate of Correction **

TITLE: System and method for the delivery of digital video and data over a communication channel

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunn; Bryan W.	Newnan	GA		
Eshleman; Matthew A.	Lilburn	GA		
Butler; William W.	Roswell	GA		
Collins; Donald J.	Decatur	GA		
Strike; Timothy M.	Marietta	GA		
Bohlander; Ronald A.	Marietta	GA		
Klimek; David L.	Buford	GA		

US-CL-CURRENT: 725/114; 725/109, 725/87

ABSTRACT:

A novel digital video and data delivery system makes possible the delivery of
digital video content, bi-directional data services such as Internet data, and plain
old telephone service (POTS) to an end user over a communications channel. The
channel is typically the copper wire pair that extends between a telephone company
central office and a residential premises, but may be any communication medium that
supports the communication of compressed digital video, bi-directional data, such as
Internet data, and POTS, and indeed, may be a wireless connection. The digital video
and data delivery system capitalizes on a bus, or broadcast backplane, created by
circuitry contained within the central office. The broadcast backplane enables a
plurality of video program data to be available to each end user, and allows a
plurality of end users access to a plurality of video programming content without
the necessity of delivering the entire program content to each end user. A user
requests a particular program and, if authorized, receives at least that program
over the communication channel. Simultaneous with the digital video content supplied
on the channel is both bi-directional data service (such as for example, Internet
data) and POTS.

15 Claims, 48 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 48

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 16. Document ID: US 6073105 A

L16: Entry 16 of 23   File: USPT   Jun 6, 2000

US-PAT-NO: 6073105
DOCUMENT-IDENTIFIER: US 6073105 A

TITLE: Interactive personals online network method and apparatus

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Sutcliffe; Andrew B.	Tyngsboro	MA		
Kramer; David S.	Waltham	MA		
Dunn; Kevin A.	Boston	MA		

US-CL-CURRENT: 705/1; 235/375, 235/379, 235/380, 379/88.17, 379/93.01, 705/14,
705/34, 707/100, 707/101, 707/104.1

ABSTRACT:

A system for providing personal advertisements over a public network and for
matching personal advertisements of different users includes means for integrating
data from a plurality of different storage devices into a single database accessible

by a user over a publi⬤etwork. The database includes ⬤ent and user profile information collected from users over the public network and through one or more call centers and adtaking systems.

17 Claims, 17 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

☐ 17.   Document ID: US 6026379 A

L16: Entry 17 of 23   File: USPT   Feb 15, 2000

US-PAT-NO: 6026379
DOCUMENT-IDENTIFIER: US 6026379 A

TITLE: System, method and article of manufacture for managing transactions in a high availability system

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haller; Daniel R.	Menlo Park	CA		
Nguyen; Trong	Sunnyvale	CA		
Rowney; Kevin T. B.	San Francisco	CA		
Berger; David A.	San Mateo	CA		
Kramer; Glenn A.	San Francisco	CA		

US-CL-CURRENT: 705/34; 705/26, 705/27, 705/39

ABSTRACT:

An architecture is disclosed allowing a server to communicate bidirectionally with a gateway over a first communication link, over which service requests are initiated by the server. In response to a transaction received from a host legacy system at the gateway, the gateway parses one or more transaction response values from the host message, maps the one or more transaction response values to a canonical response code, and stores the canonical response code in a transaction log. According to a broad aspect of a preferred embodiment of the invention, communication networks that employ transactions between applications must effectively manage transactions that flow over the network. In addition, networking systems must also detect counterfeit transactions, especially, when the networking systems are utilized for financial transactions. An active, on-line database is utilized as a transaction log to track original requests, valid retrys and detect fradulant transactions. The transaction log serves as a memory cache where the received host response is returned to a valid retry transaction should the original response fail to reach a server because of a communications problem.

25 Claims, 106 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 57

☐ 18.   Document ID: US 5999525 A

L16: Entry 18 of 23   File: USPT   Dec 7, 1999

US-PAT-NO: 5999525
DOCUMENT-IDENTIFIER: US 5999525 A

TITLE: Method for video telephony over a hybrid network

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Krishnaswamy; Sridhar	Cedar Rapids	IA		
Elliott; Isaac K.	Colorado Springs	CO		
Reynolds; Tim E.	Iowa City	IA		
Forgy; Glen A.	Iowa City	IA		
Solbrig; Erin M.	Cedar Rapids	IA		

US-CL-CURRENT: 370/352; 370/389, 370/392, 379/114.15, 379/90.01, 379/93.07

ABSTRACT:

Telephone calls, data and other multimedia information including video, audio and data is routed through a switched network which includes transfer of information across the internet. Users can transmit video, audio and data communications of designated quality over the internet to other registered video telephony users. Users can manage more aspects of a network than previously possible, and control network activities from a central site.

30 Claims, 190 Drawing figures
Exemplary Claim Number: 11
Number of Drawing Sheets: 134

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments		KWIC	Draw Desc	Image

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☐ 19. Document ID: US 5983208 A

L16: Entry 19 of 23   File: USPT   Nov 9, 1999

US-PAT-NO: 5983208
DOCUMENT-IDENTIFIER: US 5983208 A

TITLE: System, method and article of manufacture for handling transaction results in a gateway payment architecture utilizing a multichannel, extensible, flexible architecture

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haller; Daniel R.	Menlo Park	CA		
Nguyen; Trong	Sunnyvale	CA		

US-CL-CURRENT: 705/40; 705/21, 705/44

ABSTRACT:

Secure transmission of data is provided between a plurality of computer systems over a public communication system, such as the Internet. Secure transmission of data is provided from a customer computer system to a merchant computer system, and for the further secure transmission of payment information regarding a payment instrument from the merchant computer system to a payment gateway computer system. The payment gateway system evaluates the payment information and returns a level of

authorization of credi⬤ia a secure transmission to th⬤erchant which is communicated to the customer by the merchant. The merchant can then determine whether to accept the payment instrument tendered or deny credit and require another payment instrument. An architecture that provides support for additional message types that are not SET compliant is provided by a preferred embodiment of the invention. A server communicating bidirectionally with a gateway is disclosed. The server communicates to the gateway over a first communication link, over which all service requests are initiated by the server. The gateway uses a second communication link to send service signals to the server. In response to the service signals, the server initiates transactions to the gateway or presents information on an a display device.

21 Claims, 108 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 57

☐ 20. Document ID: US 5978840 A

TITLE: System, method and article of manufacture for a payment gateway system architecture for processing encrypted payment transactions utilizing a multichannel, extensible, flexible architecture

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nguyen; Trong	Sunnyvale	CA		
Haller; Daniel R.	Menlo Park	CA		
Subramanian; Mahadevan P.	Foster City	CA		

US-CL-CURRENT: 709/217; 705/53, 705/79

ABSTRACT:

Secure transmission of data is provided between a plurality of computer systems over a public communication system, such as the Internet. Secure transmission of data is provided from a customer computer system to a merchant computer system, and for the further secure transmission of payment information from the merchant computer system to a payment gateway computer system. The payment gateway system receives encrypted payment requests from merchants, as HTTP POST messages via the Internet. The gateway then unwraps and decrypts the requests, authenticates digital signatures of the requests based on certificates, supports transaction types and card types as required by a financial institution, and accepts concurrent VPOS transactions from each of the merchant servers. Then, the gateway converts transaction data to host-specific formats and forwards the mapped requests to the host processor using the existing financial network. The gateway architecture includes three distinct sections to enhance distribution of the functions. The upper API consists of concise functions which are available via a call out interface to custom modules. The lower API allows the gateway and the custom modules to call in to reusable functions which facilitate isolation from possible future fluctuations in structural definitions of SET data elements. The system configuration custom parameters include the more static information elements required for such things as the network address of the host or its proxy equipment, timeout values, expected length of certain messages and other system configuration information. These parameters are specified as name-value pairs in the gateway system initialization file.

34 Claims, 113 Drawing Figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 59

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments   KWIC | Draw Desc | Image

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☐ 21. Document ID: US 5931917 A

L16: Entry 21 of 23   File: USPT   Aug 3, 1999

US-PAT-NO: 5931917
DOCUMENT-IDENTIFIER: US 5931917 A

TITLE: System, method and article of manufacture for a gateway system architecture
with system administration information accessible from a browser

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Nguyen; Trong	Sunnyvale	CA		
Subramanian; Mahadevan P.	Foster City	CA		
Haller; Daniel R.	Menlo Park	CA		

US-CL-CURRENT: 709/250; 709/203, 709/216

ABSTRACT:

Secure transmission of data is provided between a plurality of computer systems over
a public communication system, such as the Internet. Secure transmission of data is
provided from a customer computer system to a merchant computer system, and for the
further secure transmission of payment information from the merchant computer system
to a payment gateway computer system. The payment gateway system receives encrypted
payment requests from merchants, as HTTP POST messages via the Internet. The gateway
then unwraps and decrypts the requests, authenticates digital signatures of the
requests based on certificates, supports transaction types and card types as
required by a financial institution, and accepts concurrent VPOS transactions from
each of the merchant servers. Then, the gateway converts transaction data to
host-specific formats and forwards the mapped requests to the host processor using
the existing financial network. The gateway system architecture includes support for
standard Internet access routines which facilitate access to system administration
information from a commercial web browser.

20 Claims, 69 Drawing figures
Exemplary Claim Number: 9
Number of Drawing Sheets: 59

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 22. Document ID: US 5924094 A

L16: Entry 22 of 23   File: USPT   Jul 13, 1999

US-PAT-NO: 5924094
DOCUMENT-IDENTIFIER: US 5924094 A

TITLE: Independent distributed database system

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sutter; Herbert P.	Oakville			CA

US-CL-CURRENT: 707/10; 707/1, 707/101, 707/102, 707/2, 707/201, 707/3, 707/4, 707/5, 707/8, 707/9

ABSTRACT:

An independent distributed database system comprising a plurality of sites wherein all users at all sites work off-line with local data. All application transactions are against the local database only, and every site stores "all and only" the data it needs. On-line transactions occur only in the background, including a periodical "synch" between sites that transmits any changes to data of interest to that site. If the background operations are interrupted or the network is temporarily unavailable, the user does not see new changes made at other sites until the data link is available again, but is otherwise unaffected. It is a feature that no site acts as a "server" for any other site. Some sites may store more data or have more users than others, but all sites are logically peers.

31 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 23. Document ID: US 5867494 A

US-PAT-NO: 5867494
DOCUMENT-IDENTIFIER: US 5867494 A

TITLE: System, method and article of manufacture with integrated video conferencing billing in a communication system architecture

DATE-ISSUED: February 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Krishnaswamy; Sridhar	Cedar Rapids	IA		
Elliott; Isaac K.	Colorado Springs	CO		
Reynolds; Tim E.	Iowa City	IA		
Forgy; Glen A.	Iowa City	IA		
Solbrig; Erin M.	Cedar Rapids	IA		

US-CL-CURRENT: 370/352; 370/389, 370/392, 379/114.15, 379/90.01, 379/93.07

ABSTRACT:

Telephone calls, data and other multimedia information including video, audio and data is routed through a switched network which includes transfer of information across the internet. Users can participate in video conference calls in which each participant can simultaneously view the video from each other participant and hear the mixed audio from all participants. Users can also share data and documents with other video conference participants. Users can manage more aspects of a network than previously possible, and control network activities from a central site. Billing of the conference call is accomplished utilizing a billing detail record to capture events associated with a call as they occur and debit the appropriate bill.

20 Claims, 192 Drawing Figures
Exemplary Claim Number: 7
Number of Drawing Sheets: 134

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